

Atty Docket No.: 10416/9
Serial No. 10/005,724

AMENDMENTS TO THE CLAIMS

Claim amendments and status:

1-16. (Canceled)

17. (New) A band pass filter comprising:

a first half-wave ($\lambda/2$) TEM mode resonator constituted by a first dielectric block having a first open end at the first side surface, a second open end at the second side surface opposite to the first open end, an input terminal formed on the second side surface, and metal plates formed on top and bottom surfaces which are opposite to each other and on third and forth side surfaces which are opposite to each other,

a second half-wave ($\lambda/2$) TEM mode resonator constituted by a second dielectric block having a first open end at the first side surface, a second open end at the second side surface opposite to the first open end, an output terminal formed in the second side surface, and metal plates formed on top and bottom surfaces which are opposite to each other and on third and forth side surfaces which are opposite to each other,

an evanescent E-mode waveguide interposed between the first open end of the first half-wave ($\lambda/2$) TEM mode resonator and the first open end of the second half-wave ($\lambda/2$) TEM mode resonator,

and wherein the first half-wave ($\lambda/2$) TEM mode resonator, the second half-wave ($\lambda/2$) TEM mode resonator and an evanescent waveguide are a single unit.

18. (New) The band pass filter as claimed in claim 17, wherein the passing band low frequency is greater than 5 GHz.

19. (New) The band pass filter as claimed in claim 18, wherein the evanescent E-mode waveguide is constituted by a third dielectric block which has a first side surface in contact with the first side surface of the first resonator and a second side surface in contact with the first side surface of the second resonator, top and bottom surfaces which are opposite to each other, and third and fourth surfaces which are opposite to each other, a metal plate being formed on the bottom surface, and wherein the bottom surfaces of the first, second and third dielectric blocks are coplanar.

Atty Docket No.: 10416/9
Serial No. 10/005,724

20. (New) The band pass filter as claimed in claim 19, wherein the top surfaces of the first, second and third dielectric blocks are coplanar.
21. (New) The band pass filter as claimed in claim 19, wherein members of at least one pair of surfaces among a first pair consisting of the top surfaces of the first and third dielectric blocks, a second pair consisting of the third surfaces of the first and third dielectric blocks, and a third pair consisting of the fourth surfaces of the first and third dielectric blocks, fall in different planes.